



METROPOLITAN  
TRANSPORTATION  
COMMISSION

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***Memorandum***

TO: Operations Committee

DATE: July 5, 2013

FR: Executive Director

W.I. 1234

RE: Program for Arterial System Synchronization:

(i) FY 2013-14 Cycle of Projects (\$2,000,000)

(ii) Contracts: PASS Technical Consultant Services: Advantec Consulting Engineers (\$240,000); DKS Associates (\$200,000); Iteris, Inc. (\$440,000); Kimley-Horn and Associates, Inc. (\$480,000); TJKM Transportation Consultants (\$400,000)

Staff requests that this Committee (i) approve the Program for Arterial System Synchronization (PASS) FY 2013-14 Cycle of Projects and (ii) authorize contracts with the following consultants to provide technical assistance for the PASS: Advantec Consulting Engineers (\$240,000), DKS Associates (\$200,000), Iteris, Inc. (\$440,000), Kimley-Horn and Associates, Inc. (\$480,000), and TJKM Transportation Consultants (\$400,000).

**Background: Program for Arterial System Synchronization**

The purpose of the PASS is to provide technical assistance to local agencies to help improve the safe and efficient operation of traffic signal systems and corridors in the Bay Area. The current PASS program began in FY 2010-11, and has since completed 51 projects, by providing assistance to re-time and synchronize over 1,000 traffic signals in the region. For FY 2013-14, MTC has allocated \$2 million in federal funds for the PASS. Arterial signal timing projects are defined by Bay Area agencies, evaluated by MTC for merit and funding eligibility, and assigned to consultants retained by MTC to help local agencies implement the projects.

MTC's primary responsibility in the PASS is to administer and manage the program, and facilitate inter-agency communication and coordination. The primary responsibility for the operation and re-timing of the traffic signals resides with the agency that owns, operates and/or maintains them. Technical assistance provided by PASS is focused on traffic signal systems that: 1) interact with freeways and state highways; 2) involve traffic signals from multiple jurisdictions; 3) operate on corridors with established regional significance; 4) provide priority for transit vehicles; and 5) are developed in conjunction with other regional programs.

**PASS FY 2013-14 Cycle of Projects**

On April 19, 2013, MTC released the Call for Projects for the FY 2013-14 Cycle and received applications for 22 projects, requesting technical assistance for 554 traffic signals within six Bay Area counties. MTC staff, in partnership with Caltrans, reviewed the applications for adherence to the following goals and objectives of the PASS: 1) improve air quality by reducing motor vehicle emissions and fuel consumption; 2) improve reliability and predictability of travel along

arterials; and 3) Improve the safety of motorists, pedestrians, and bicyclists. Based on staff's review, staff recommends approval of 21 projects consisting of 543 signals for the FY 2013-14 Cycle, as identified in Attachment 1. Staff will work with the project sponsors to procure required signal communication equipment needed for the projects, estimated to be approximately \$140,000. The remaining \$100,000 is reserved for contingency.

### **PASS Technical Consultant Contracts**

On May 3, 2013, MTC released a Request for Qualifications (RFQ) to select consultants to provide technical assistance for the PASS FY 2013-14 Cycle. Statements of Qualifications (SOQs) were received from the following eight consulting firms:

- Advantec Consulting Engineers
- DKS Associates
- GHD, Inc.
- Iteris, Inc.
- Kimley-Horn and Associates, Inc.
- Kittelson and Associates, Inc.
- Stantec Consulting Ltd.
- TJKM Transportation Consultants

All SOQs met the minimum qualifications and DBE requirements set forth in the RFQ. A review panel consisting of MTC and Caltrans staff evaluated the SOQs based on the firm's expertise and experience, qualifications of the Project Manager and key staff, and familiarity working with Bay Area agencies. The panel short-listed six consulting firms and conducted interviews on June 10, 2013. Following the interviews, the panel recommended the following five firms for the PASS: 1) Advantec Consulting Engineers, 2) DKS Associates, 3) Iteris, Inc., 4) Kimley-Horn and Associates, Inc., and 5) TJKM Transportation Consultants. These firms demonstrated strong project management skills, considerable experience and expertise in traffic engineering and services, and a depth of available resources within their project team in relation to the services required for PASS projects.

Three firms are not being recommended as they were deemed by the review panel to be not as competitive based on their overall firm experience with respect to the services being sought under this procurement, the strength of the project team, and their familiarity with traffic signal systems in the Bay Area. These three firms are: GHD, Inc., Kittelson and Associates, Inc., and Stantec Consulting Ltd.

### **Recommendation**

Staff recommends that this Committee approve the 21 projects listed in Attachment 1 for the PASS FY 2013-14 Cycle. Staff also recommends that this Committee authorize the Executive Director or his designated representative to negotiate and enter into contracts with: Advantec Consulting Engineers (\$240,000); DKS Associates (\$200,000); Iteris, Inc. (\$440,000); Kimley-Horn and Associates, Inc. (\$480,000); and TJKM Transportation Consultants (\$400,000) to provide technical assistance for the PASS through June 30, 2014, with the option to extend for one additional year.



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Steve Heminger

SH: vt

## REQUEST FOR COMMITTEE APPROVAL

Work Item No.: 1234

Project Title: Program for Arterial System Synchronization FY 2013-14  
Technical Consultant Support

Cycle of Projects: (See Attachment)

Purpose of Project: To provide traffic engineering assistance to Bay Area jurisdictions for re-timing and synchronizing their traffic signals

Brief Scope of Work: Assist with the analysis of existing conditions, including collection of new traffic counts, developing computer models and performing travel time and delay studies; development of new signal timing plans; implementation and fine-tuning of timing plans; and conducting performance evaluations.

Budgeted Cost for Projects: PASS FY 2013-14 cycle total \$2,000,000 (breakdown included in Attachment 1 of Staff Memorandum).

Funding Source: STP/CMAQ

Fiscal Impact: Included in the proposed FY 2013-14 MTC Budget.

Motion by Committee: That the 21 projects listed in the Attachment to this Request for Committee approval for the FY 2013-14 cycle of the Program for Arterial System Synchronization (PASS) are approved.

Operations Committee:

Approved: \_\_\_\_\_  
Jake Mackenzie, Chair

Approved: Date: July 12, 2013

**Attachment:**  
**Program for Arterial System Synchronization: FY 2013-14 Cycle Projects**

#	County	Project Sponsors	Project Corridors	# of Signals	Project Budget*
1	MA	Mill Valley	East Blithedale Ave - Camino Alto	5	\$18,800
2	MA	San Anselmo; Fairfax; Ross; San Rafael	Sir Francis Drake; Red Hill Ave	15	\$88,500
3	SON	Santa Rosa	Stony Point Rd; Guerneville; College Ave; Petaluma Hill Rd; Hearn Ave	43	\$133,000
4	CC	Concord; Caltrans	Concord Ave/Galindo St; Willow Pass Rd; Clayton Rd; Treat Blvd; Monument Blvd; Concord Blvd; Oak Grove Rd	79	\$223,800
5	CC	Lafayette	Mt Diablo Blvd; Moraga Rd	12	\$67,600
6	CC	Walnut Creek; Caltrans	Citywide	44	\$94,500
7	AL	Dublin	Hacienda; Tassajara	36	\$164,800
8	AL	Fremont	Mission Blvd	8	\$12,500
9	AL	Hayward; Caltrans	Harder Rd; Industrial Blvd	13	\$58,600
10	AL	Oakland; Caltrans	Fruitvale Ave; International Blvd	20	\$60,500
11	AL	Union City	Decoto Rd	8	\$15,200
12	SCL	Caltrans	El Camino Real/Route 82	57	\$255,100
13	SCL	Campbell; San Jose	East Hamilton Ave; Meridian Ave	15	\$70,500
14	SCL	Mountain View; Palo Alto; Caltrans	Middlefield Rd	16	\$50,200
15	SCL	Palo Alto; Menlo Park; East Palo Alto; Mountain View; Los Altos; SCL County; Caltrans	Hamilton; University; Lytton; Alma; Middlefield; Embarcadero; San Antonio; Charleston	65	\$260,100
16	SCL	Santa Clara County	Capitol Expy; Lawrence Expy; Oregon Expy	49	\$109,200
17	SM	Belmont; SM County; Caltrans	Ralston Ave	12	\$45,700
18	SM	Menlo Park; Caltrans	El Camino Real; Sand Hill Rd	13	\$25,000
19	SM	Redwood City; Caltrans	Veterans Blvd	9	\$37,800
20	SM	San Carlos; Caltrans	Holly St; San Carlos Ave; Industrial Rd	13	\$75,700
21	SM	South San Francisco; Caltrans	Spruce Ave	11	\$32,900
			<b>Total</b>	<b>543</b>	<b>\$1,900,000</b>
				Contingency	\$100,000
			<b>Total Budget</b>		<b>\$2,000,000</b>

\* Includes estimated budget for signal coordination, additional services, communications equipment, local agency agreements, etc.

## REQUEST FOR COMMITTEE APPROVAL

### Summary of Proposed Contracts

Work Item No.:	1234
Contractors:	1) Advantec Consulting Engineers, Diamond Bar, CA 2) DKS Associates, Oakland, CA 3) Iteris, Inc., Santa Ana, CA 4) Kimley-Horn and Associates, Inc., Pleasanton, CA 5) TJKM Transportation Consultants, Pleasanton, CA
Project Title:	Program for Arterial System Synchronization FY 2013-14 Technical Consultant Support
Purpose of Project:	To provide traffic engineering assistance to Bay Area jurisdictions for re-timing and synchronizing their traffic signals.
Brief Scope of Work:	Assist with the analysis of existing conditions, including collection of new traffic counts, developing computer models and performing travel time and delay studies; development of new signal timing plans; implementation and fine-tuning of timing plans; and conducting performance evaluations.
Project Cost Not to Exceed:	\$240,000 – Advantec Consulting Engineers \$200,000 – DKS Associates \$440,000 – Iteris, Inc. \$480,000 – Kimley-Horn & Associates, Inc. \$400,000 – TJKM Transportation Consultants
Funding Source:	STP/CMAQ
Fiscal Impact:	Included in the FY 2013-14 agency budget
Motion by Committee:	That the Executive Director or his designee is authorized to negotiate and enter into contracts with the listed firms for a one-year period ending June 30, 2014, with the option to extend for one additional year for the purposes described above and in the Executive Director's July 5, 2013 Memorandum, and that the Chief Financial Officer is directed to set aside funds for such contracts in the amounts set forth above.
Operations Committee:	<hr/> Jake Mackenzie, Chair
Approved:	Date: July 12, 2013